

THE JOURNAL OF CLIMATE

1. **THE HISTORICAL PERSPECTIVE**

ANSWER

$$\cdot 140 \cdot 110$$

• 160 • 43

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<210> 1

<211> 1949

2122 DNA

<213> *Homo sapiens*

<400> :

1.0 ml. of 10% trichloroacetic acid was added to each tube and the tubes were capped and inverted for 10 minutes. The precipitated proteins were then removed by centrifugation at 10,000 rpm for 10 minutes.

100
140
144

1.0 ml. of
1.0 ml. of
1.0 ml. of
1.0 ml. of Heme-sapto

Met Val Ile Asp Leu Trp Ser Asp Thr Lys Ile His Leu Asp Gly Asp
1 6 10 14
Gly Gly Phe Ser Val Ser Thr Ala Gly Arg Met His Ile Ile Lys Ile
20 25 30 36
Val Ser Val Gln Ala Met Trp Ser Ala Leu Gln Val Leu His Lys Ala
35 40 45
Cys Glu Val Ala Arg His Asn Tyr Phe Pro Gly Gly Val Ala Leu
50 55 60
Ile Trp Ala Thr Tyr Tyr Glu Ser Cys Ile Ser Ser Glu Gln Ser Cys
65 70 75 80
Ile Asn Glu Trp Asn Ala Met Gln Asp Leu Glu Ser Thr Arg Pro Asp
85 90 95
Ser Pro Ala Leu Phe Val Asp Lys Pro Thr Glu Gly Glu Arg Thr Glu
100 105 110
Arg Leu Ile Lys Ala Lys Leu Arg Ser Ile Met Met Ser Gln Asp Leu
115 120 125
Glu Asn Val Thr Ser Lys Glu Ile Arg Asn Glu Leu Glu Lys Gln Met
130 135 140
Asn Cys Asn Leu Lys Glu Leu Lys Glu Phe Ile Asp Asn Glu Met Leu
145 150 155 160
Leu Ile Leu Gly Gln Met Asp Lys Pro Ser Leu Ile Phe Asp His Leu
165 170 175
Tyr Leu Gly Ser Glu Trp Asn Ala Ser Asn Leu Glu Glu Leu Gln Gly
180 185 190
Ser Gly Val Asp Tyr Ile Leu Asp Val Thr Arg Glu Ile Asp Asn Phe
195 200 205
Phe Pro Gly Leu Phe Ala Tyr His Asn Ile Arg Val Tyr Asp Glu Gln
210 215 220
Tyr Thr Asp Ile Asp Leu Asp Asn Asp Asp Asp Asp Asp Asp Asp Asp
230 235 240 245 250 255 260 265 270 275 280 285 290 295 300 305 310 315 320 325 330 335 340 345 350 355 360 365 370 375 380 385 390 395 400 405 410 415 420 425 430 435 440 445 450 455 460 465 470 475 480 485 490 495 500 505 510 515 520 525 530 535 540 545 550 555 560 565 570 575 580 585 590 595 600 605 610 615 620 625 630 635 640 645 650 655 660 665 670 675 680 685 690 695 700 705 710 715 720 725 730 735 740 745 750 755 760 765 770 775 780 785 790 795 800 805 810 815 820 825 830 835

Ile Thr Leu Asp Asp Ala Ala Gln Pro Tyr Leu Gly Pro Pro Ile Pro
 385 390 395 400 405 410 415 420 425 430 435 440 445 450 455 460
 Tyr Cys Ile Ala Arg Ser Asp Ile Leu Leu Pro Ser Pro Ile Val Asp
 380 385 390 395 400 405 410 415 420 425 430 435 440 445 450 455 460
 Ser Thr Gly Ser Leu Val His Leu Gln Asp Ile Ala Arg Ala Ala Leu
 385 390 395 400 405 410 415 420 425 430 435 440 445 450 455 460
 Leu Gln Ile Ala Ala Pro Ile Ala Gln Val His Arg Ile Ala Arg Gln
 405 410 415 420 425 430 435 440 445 450 455 460
 Ile Ile Thr Gly Ser Gly Leu Cys Ala Lys Asp Val Lys Lys Ile Leu
 410 415 420 425 430 435 440 445 450 455 460
 Gln Ile Thr Gly Ser Pro Lys Gly Arg Ser Ser Leu Gln Val Gln
 435 440 445 450 455 460
 Gln Thr Gln Arg Gln Gln Gly Ile Gly Ala Gly Arg Trp Gly Gln Leu
 450 455 460
 Pro Thr Gln Leu Asp Gln Asn Leu Leu Asn Ser Gln Asn Leu Asn Asn
 465 470 475 480
 Asn Ser Lys Arg Ser Cys Pro Asn Gly Met Gln Val Gly Arg Ala Arg
 485 490 495
 Pro Ala Gly Trp His Thr Pro Ser Leu Pro Ser His Ser Asn Trp Pro
 500 505 510
 Thr Ser Ala Ser Val Val Gly Thr Thr Gly Thr Arg His His Thr Gln
 515 520 525
 Leu Ile Phe Phe Tyr Cys Leu Leu Trp Ala Pro Ser Ser His Leu Gln
 530 535 540
 Gly Pro Gln Gly Ser Phe Thr Gly
 545 550

<210> 3

<211> 21

<212> PRT

<213> Homo sapien

<400> 3

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 Ile Ala Tyr Ala Met
 20

<210> 4

<211> 4

<212> PRT

<213> Homo sapien

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<210> 4

Cys Ser Ser Ile Ile Thr Ala Arg Ser Ile Ile Ser Ile Ile Ser Ile Ile
 1 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100

1. 1. 1. 1. 1. 1.
1. 1. 1. 1. 1. 1.
1. 1. 1. 1. 1. 1.

卷之三

- 210 - 6

2125 300

2325 [1971]

• 100 •

Pos	Res	Res
Tyr	Met	Val
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114	Asn	Asn
115	Gly	Asp
116	Pro	Ser
117	Ser	Asp
118	Asp	Ser
119	Ser	Thr
120	Thr	Gly
121	Gly	Tyr
122	Asp	Gly
123	Gly	Asp
124	Asp	Gly
125	Gly	Asp
126	Asp	Gly
127	Gly	Asp
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132	Asp	Gly
133	Gly	Asp
134	Asp	Gly
135	Gly	Asp
136	Asp	Gly
137	Gly	Asp
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399	Gly	Asp
400	Asp	Gly

19.12.1997

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<210> 3

<211> 241

<212> P.F.T

4213. *Homo sapiens*

4400 8

- 210-211
- 211-22
- 211-21NA
- 213-Artificial Sequence

-220-

223: Primer

14

<210> 10
<211> 26
<212> DNA
<213> Artificial Sequence

<2.2.0>

400 10
ccccacccggg ggctttatgg ggccgg

26

- 210: 11
- 211: 27
- 212: tRNA
- 213: Artificial Sequence

• 2202

1996-1997
1997-1998
1998-1999
1999-2000

1200 J. H. Dickey

THE 1990 CENSUS OF POPULATION AND HOUSING UNIT COUNT

- 211 - 14
- 211 - 15
- 212 - DNA
- 213 - Artificial Sequence

220

400 14
aqaqas aqas aqadatcc aqas

<210> 15
<211> 28
<212> DNA
<213> Artificial Sequence

220

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*210> 16
*211> 25
*212> DNA
*213> Artificial Sequence

8.2200

4001 > 1.3

Ser	Asp	Leu	Asp	Arg	Asp	Ile	Asp	Asp	Asp	Ser	Asp	Asp	Asp	Asp	
1	2	3	4	5	6	7	8	9	10	11	12	13	14		
Pro	Leu	Ser	Asn	Ser	Ala	Pro	Leu	Asp	Asp	Leu	Asp	Leu	Asp	Asp	
15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	
Leu	Tyr	Leu	Gly	Gly	Ala	Lys	Asp	Ser	Thr	Asn	Leu	Asp	Val	Leu	Glu
30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
Ala	Phe	Gly	Ile	Lys	Tyr	Ile	Leu	Asn	Val	Thr	Pro	Asn	Leu	Pro	Asn
46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61
Leu	Phe	Glu	Asn	Ala	Gly	Glu	Phe	Lys	Tyr	Lys	Gln	Ile	Pro	Ile	Ser
62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77
Asp	His	Trp	Ser	Gln	Asn	Leu	Ser	Gln	Phe	Phe	Pro	Glu	Ala	Ile	Ser
78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93
Phe	Ile	Asp	Glu	Ala	Arg	Gly	Lys	Asn	Cys	Gly	Val	Leu	Val	His	Cys
100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115
Leu	Ala	Gly	Ile	Ser	Arg	Ser	Val	Thr	Val	Thr	Val	Ala	Tyr	Leu	Met
116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131
Gln	Lys	Leu	Asn	Leu	Ser	Met	Asn	Asp	Ala	Tyr	Asp	Ile	Val	Lys	Met
132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147
Lys	Lys	Ser	Asn	Ile	Ser	Pro	Asn	Phe	Asn	Phe	Met	Gly	Gln	Leu	Leu
148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163
Asp	Phe	Glu	Arg	Thr	Ile	Gly	Leu	Ser	Ser						
164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179

220 24

211-168

<212> PRT

1813: Homo sapiens

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1100-16
1110-16
1112 PRT
1113 H.M. Samples

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 Gly Ala Thr Pro Pro Ile Val Gly Ile Arg Ala Ser Phe Pro Val Gln
 1 5 10 15
 Ile Leu Pro Asn Leu Tyr Ile Ser Gly Ser Ala Arg Asp Ser Ala Asn Leu
 20 25 30
 Glu Ser Leu Ala Lys Leu Gly Ile Arg Tyr Ile Leu Asn Val Thr Pro
 35 40 45
 Asn Leu Pro Asn Phe Phe Glu Lys Asn Gly Asp Phe His Tyr Lys Gln
 50 55 60
 Ile Pro Ile Ser Asp His Trp Ser Gln Asn Leu Ser Arg Phe Phe Pro
 65 70 75 80
 Glu Ala Ile Glu Phe Ile Asp Glu Ala Ile Ser Gln Asn Cys Gly Val
 85 90 95
 Leu Val His Cys Leu Ala Gly Val Ser Arg Ser Val Thr Val Thr Val
 100 105 110
 Ala Tyr Leu Met Gln Lys Leu His Leu Ser Leu Asn Asp Ala Tyr Asp
 115 120 125
 Leu Val Lys Arg Lys Lys Ser Asn Ile Ser Pro Asn Phe Asn Phe Met
 130 135 140
 Gly Gln Leu Leu Asp Phe Glu Arg Ser Leu Arg Leu Glu
 145 150 155

<210> 26
<211> 170
<212> PRT
<213> Homo sapiens

1990-1991
1991-1992
1992-1993
1993-1994

A. S. H. HUANG

120

212 163

2211

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1. 100 110
 Ala Gly Ile Ser Ara Ser Ala Thr Ile Tyr Leu Ala Tyr Ile Met Ara
 101 111
 Thr Ara Ara Val Lys Leu Asp Ile Ala Ile Phe Val Lys Gln Ara
 112 113 114
 Ara Ser Ile Ile Ser Pro Asn Ile Ser Ile Met Ile Gly Gln Leu Leu Gln
 115 116 117
 Phe Ile Ser Gln Val Leu Ala Ile His
 118

>210> 219
 >211> 169
 >212> FRT
 >213> Homo sapiens

>400> 29
 Pro Val Pro Pro Ser Ala Thr Glu Pro Leu Asp Leu Gly Cys Ser Ser
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 Cys Gly Thr Pro Leu His Asp Gln Gly Gly Pro Val Glu Ile Leu Pro
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 Phe Leu Tyr Leu Gly Ser Ala Tyr His Ala Ala Arg Arg Asp Met Leu
 35 40 45
 Asp Ala Leu Gly Ile Thr Ala Leu Leu Asn Val Ser Ser Asp Cys Pro
 50 55 60
 Asn His Phe Glu Gly His Tyr Gln Tyr Lys Cys Ile Pro Val Glu Asp
 65 70 75 80
 Asn His Lys Ala Asp Ile Ser Ser Trp Phe Met Gln Ala Ile Glu Tyr
 85 90 95
 Ile Asp Ala Val Lys Asp Cys Arg Gly Arg Val Leu Val His Cys Gln
 100 105 110
 Ala Gly Ile Ser Ara Ser Ala Thr Ile Cys Leu Ala Tyr Leu Met Met
 110 115 120 125
 Lys Lys Ara Val Ara Leu Glu Glu Ala Phe Glu Phe Val Lys Gln Ara
 130 135 140
 Ara Ser Ile Ile Ser Pro Asn Ile Ser Phe Met Gln Leu Leu Gln
 145 150 155 160
 Phe Gln Ser Gln Val Leu Ala Thr Ser

>210> 219

>211> 169
>212> FRT

>400> 29
 Ser Val Ara Ala Ile Ile Ser Ile Lys Ile Gly Lys Ile Val Val Ara Thr
 1 5 10 15
 Asp Ile Asp Ile Ile

Ser His Thr Ala Asp Ile Ser Ser His Pro Ile Val Ile Ala Ile Asp Pro
 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160
 Lys Asp Ile Val Asp Ile Lys Ile Asp Ile Lys Val Leu Val His Lys Ile
 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176
 Ala Asp Ile Ser Asp Ile Ile Thr Ile Lys Met Ala Tyr Ile Met Lys
 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192
 Thr Lys Glu Phe Asp Ile Lys Val Ala Phe Asp Tyr Ile Lys Val Asp
 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208
 Asp Ser Met Val Ser Ile Asp Ile Asp Ile Met Ile Val Leu Ile Glu
 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224
 Tyr Glu Ser Glu Ile Leu Pro Ser Thr Pro Asp
 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240

• 2108 31
• 2111 170
• 2112 PRT
• 2113 Homo sappiens

<400> 31
 Gln Met Asn Cys Asn Leu Lys Glu Leu Lys Glu Phe Ile Asp Asn Glu
 1 5 10 15
 Met Leu Leu Ile Leu Gly Gln Met Asp Lys Pro Ser Leu Ile Phe Asp
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 His Leu Tyr Leu Gly Ser Glu Trp Asn Ala Ser Asn Leu Glu Glu Leu
 35 40 45
 Gln Gly Ser Gly Val Asp Tyr Ile Leu Asn Val Thr Arg Glu Ile Asp
 50 55 60
 Asn Phe Phe Pro Gly Leu Ile Ala Tyr His Asn Ile Arg Val Tyr Asp
 65 70 75 80
 Glu Glu Thr Thr Asp Leu Leu Ala His Trp Asn Glu Ala Tyr His Phe
 85 90 95
 Ile Asn Lys Ala Lys Arg Asn His Ser Lys Cys Leu Val His Cys Lys
 100 105 110
 Met Gly Val Ser Arg Ser Ala Ser Thr Val Val Ile Ala Tyr Ala Met Lys
 115 120 125
 Glu Phe Gly Trp Pro Leu Glu Lys Ala Tyr Asn Tyr Val Lys Glu Lys
 130 135 140
 Asp Asn Thr Ser Ile Asp Asn Lys Asn Asp Asn Asp Asn Asp Asn Asp Asn Asp

45	46	47
Asn Arg Arg Gly Val Arg Tyr Ile Ile Asn Asn Val Thr Arg Asn Ile Asp		
Asn Ile Ile Ile Arg Gly Val Thr Val Tyr His Asn Ile Arg Val Tyr Asp		
Glu Gln Ala Thr Asp Ileu Leu Ala Tyr Trp Asn Asp Thr Tyr Lys Phe		
Ile Ser Asp Asn Lys His Ile Ser Lys Tyr Ile Val His Lys Tyr		
Met Asp Val Ser Arg Ser Ala Ser Thr Val Ile Ala Tyr Ala Met Lys		
Glu Tyr Ile Trp Asn Leu Asp Arg Ala Tyr Asp Tyr Val Lys Glu Arg		
Arg Thr Val Thr Lys Pro Asn Pro Ser Phe Met Arg Gln Leu Glu Glu		
Tyr Gln Gly Ile Leu Leu Ala Ser Phe Leu		
145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170		

<210> 33
<211> 180
<212> PRT
<213> Homo sapiens

<400> 35
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 35 40 45
 Lys Leu Gln Lys Leu Gly Ile Thr His Val Leu Asn Ala Ala Glu Gly
 50 55 60
 Arg Ser Phe Met His Val Asn Thr Asn Ala Asn Phe Tyr Lys Asp Ser
 65 70 75 80
 Gly Ile Thr Tyr Leu Gly Ile Lys Ala Asn Asp Thr Gin Glu Phe Asn
 85 90 95
 Leu Ser Ala Tyr Phe Glu Arg Ala Ala Asp Phe Ile Asp Gln Ala Leu
 100 105 110
 Asn Ile Asp
 115 120 125 130 135 140 145 150 155 160 165 170 175 180 185 190 195 200
 Asp Asn Asp Ile Ile Leu Ala Ile Leu Tyr Ile Leu Asn Asp Asn Leu
 195 200